in the long arm: 4-6 (8591), 4-6 (025-12), and 4-6 (011-16). The following have the break in 6 in the long arm as listed: 4-6 (8428), 4-6 (8927), and 4-6b.

Ronald L. Phillips R. Bammi

5. Non-homologous pairing in double trisomics in maize.

Double trisomics of many different combinations have been observed to show very close pairing of non-homologous univalents in pachytene. In every case the ends have been paired and one or more foldbacks is present. In no case has there been pairing of the centromeres. The configurations indicate that pairing is initiated at both ends and proceeds toward the middle of the chromosomes.

The non-homologous pairing continues into diakinesis and metaphase. The frequency of paired non-homologous univalents has been determined at diakinesis. Table 1 gives the combined frequency of the different possible configurations at diakinesis for the different double trisomics thus far observed.

Table l Frequency of figures at diakinesis of double trisomics.

Frequency of figures at area.					
	8II + 2III	9II + 1III + 1I	10II + 2I	<u>11II</u>	Total
	867	444	140	63	1514
Number		29.3	9.2	4.2	100
Per cent	77.7				

Kenneth Michel

6. Early hybrid with good pachytene spreading.

This double cross hybrid Minn. A.E.S. 101, which has been carried on by sib crossing for the past 5 or 6 years, has given well-spread pachytenes (reported last year in the News Letter). The four inbred parents, grown last summer, do not have superior spreading ability. All have several knobs. The N.D. 203 line has a large terminal knob on the short arm of 9. The other three lines have a medium or small terminal knob on 9.

John T. Stout Joseph Neubauer